- (a) SEQ ID NO: 1, or a fragment thereof that encodes a polypeptide that comprises WD-40 repeats and that regulates plants differentiation or endoreplication,
- (b) a sequence that hybridizes to the complement of SEQ ID NO: 1 under stringent conditions and that encodes a polypeptide that comprises WD-40 repeats and that regulates plant differentiation or endoreplication,
- (c) an antisense sequence that hybridizes to SEQ ID NO: 1 under stringent conditions and that inhibits the expression of a polypeptide that comprises WD-40 repeats and that regulates plant differentiation or endoreplication;

wherein stringent conditions comprise washing in 2X SSC at 65°C.

- 13. (New) The nucleic acid of Claim 12 that comprises SEQ ID NO:1 or a fragment thereof.
- 14. (New) The nucleic acid of Claim 12 that hybridizes to the complement of SEQ ID NO:1 under stringent conditions.
- 15. (New) The nucleic acid of Claim 12, that hybridizes to SEQ ID NO:1 under stringent conditions.
- 16. (New) The nucleic acid of Claim 12 that encodes a protein that is at least 70% similar to the CCS52Ms protein.
 - 17. (New) The nucleic acid of Claim 12 that encodes the CCS52Ms protein.
- 18. (New) The nucleic acid of Claim 12 that encodes a protein that is at least 70% similar to the CCS52Mt protein.
 - 19. (New) The nucleic acid of Claim 12 that encodes the CCS52Ms protein.
 - 20. (New) The nucleic acid of Claim 12 that is isolated from a plant.
 - 21. (New) A vector comprising the nucleic acid of Claim 12.

- 22. (New) The vector of Claim 21, wherein said nucleic acid is placed under the control of a promoter.
- 23. (New) The vector of Claim 22, wherein said promoter is an inducible promoter, a constitutive promoter, a tissue-specific promoter or an ubiquitous promoter.
 - 24. (New) The vector of Claim 22, wherein said promoter is an inducible promoter.
- 25. (New) The vector of Claim 22, wherein said promoter is a tissue specific promoter.
 - 26. (New) A host cell comprising the nucleic acid of Claim 12.
 - 27. (New) A plant cell that comprises the nucleic acid of Claim 12.
 - 28. (New) A transgenic plant comprising the nucleic acid of Claim 12.
 - 29. (New) An isolated or purified nucleic acid encoding a polypeptide consisting of:
- (a) SEQ ID NO: 2, or a polypeptide fragment thereof that regulates plant differentiation and endoreplication,
- (b) a polypeptide that is at least 70% similar to SEQ ID NO:2 that regulates plant differentiation and endoreplication, and that comprises repeated WD-40 motifs and a consensus sequence ($X_1YN\ X_2LL\ X_3NN\ X_4FG$) and where $X_1=A$ or $S,\ X_2=T$ or $R,\ X_3=R$ or K and $X_4=L$ or M.--

REMARKS

Claims 12-29 are active. Claims 1, 2 and 8-11 have been withdrawn from consideration.

Claims 12-29 track and find support in original Claims and throughout the specification.

Specific support for independent Claim 12 and dependent Claims 13-15 is found in original

Claim 3 and in the following portions of the disclosure: endoreplication and plant differentiation

are described on pages 1-2 of the specification, support for SEQ ID NO: 1 is found in the